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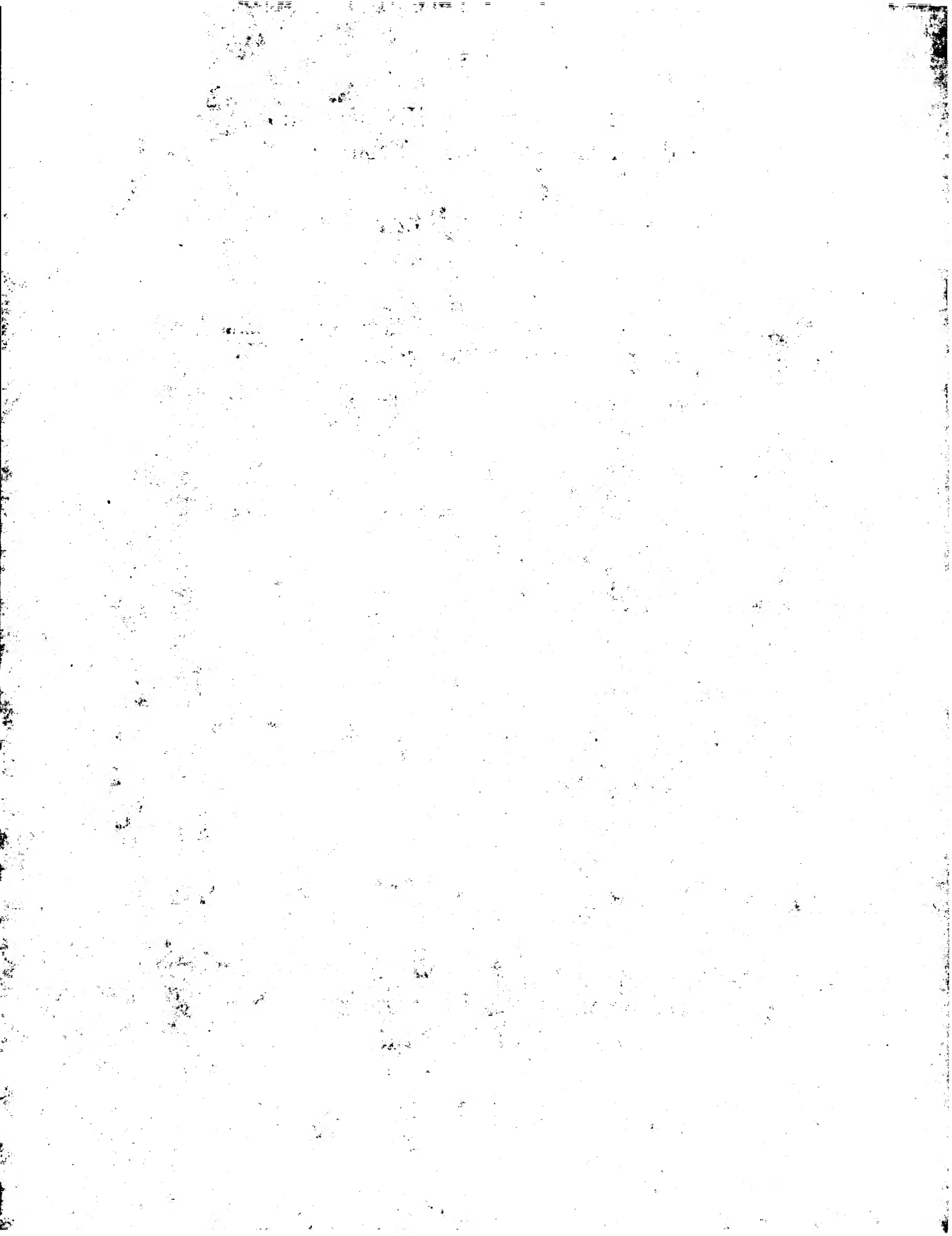
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Attorney Docket No.: PATENT
8830-257 US
(192507)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Patent application of :
Charles Buchan Ritchie :
Serial No.: 10/727,713 : Group Art Unit:
Not Yet Assigned
Filed: December 04, 2003 : Examiner:
Not Yet Assigned
For: Fluid Storage Apparatus :

FILING OF CERTIFIED COPY UNDER 35 U.S.C. § 119(b)

Commissioner for Patents
P. O. Box 1450
Alexandria, VA 22313-1450

Sir:

Enclosed herewith is a certified copy of UK Patent Applications 0228282.0
(filed December 04, 2002) as required under 35 U.S.C. § 119(b) in support of the applicant's
claim to foreign priority under 35 U.S.C. § 119(a).

No fee is believed to be due in connection with this filing. Please charge any fee that
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Respectfully submitted

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BY *James M. McKeely*
DATE *January 5, 2004*

CHARLES BUCHAN RITCHIE

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Attorney for Applicant



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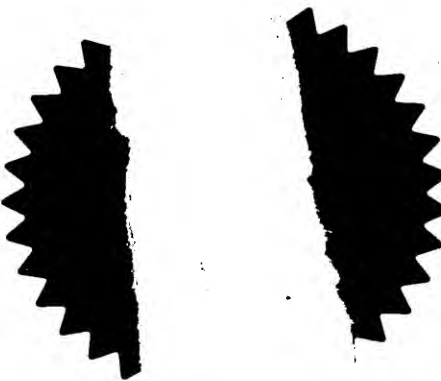
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South Wales
NP10 8QQ

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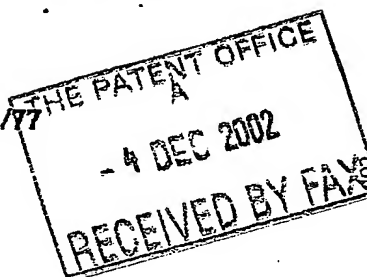
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Dated 9 December 2003

Patents Form 1/77

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(Rule 16)04DEC02 E768356-1 D02884
P01/7700 0.00-0228282.0**Request for grant of a patent**

(See the notes on the back of this form. You can also get an explanatory leaflet from the Patent Office to help you fill in this form)

The Patent OfficeCardiff Road
Newport
South Wales
NP10 8QQ

1. Your reference

P32989-/MHR/CCI/PPP

2. Patent application number

0228282.0

(The Patent Office will fill in this part)

3. Full name, address and postcode of the or of each applicant (underline all surnames)Score Group Plc
Glenugie Engineering Works
Peterhead
Aberdeenshire
AB42 0XY

Patents ADP number (if you know it)

If the applicant is a corporate body, give the country/state of its incorporation

8390676001

4. Title of the invention

"Fluid Storage Apparatus"

5. Name of your agent (if you have one)

Murgitroyd & Company

"Address for service" in the United Kingdom to which all correspondence should be sent (including the postcode)

Scotland House
165-169 Scotland Street
Glasgow
G5 8PL

Patents ADP number (if you know it)

1198015

6. If you are declaring priority from one or more earlier patent applications, give the country and the date of filing of the or of each of these earlier applications and (if you know it) the or each application number

Country

Priority application number
(if you know it)Date of filing
(day / month / year)

7. If this application is divided or otherwise derived from an earlier UK application, give the number and the filing date of the earlier application

Number of earlier application

Date of filing
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8. Is a statement of inventorship and of right to grant of a patent required in support of this request? (Answer 'Yes' if:

No

- a) any applicant named in part 3 is not an inventor, or
 b) there is an inventor who is not named as an applicant, or
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Continuation sheets of this form

Description

4

Claim(s)

-

Abstract

-

Drawing(s)

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10. If you are also filing any of the following, state how many against each item.

Priority documents

-

Translations of priority documents

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Statement of inventorship and right to grant of a patent (Patents Form 7/77)

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Request for preliminary examination and search (Patents Form 9/77)

-

Request for substantive examination (Patents Form 10/77)

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Any other documents (please specify)

-

11.

I/We request the grant of a patent on the basis of this application.

Signature

Murgitroyd & Company

Date

4 December 2002

12. Name and daytime telephone number of person to contact in the United Kingdom

Paolo Pacitti

0141 307 8400

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1 Fluid Storage Apparatus

2

3 This invention relates to fluid storage apparatus,
4 in particular, but not exclusively, to apparatus for
5 storing and transporting fluids such as, for
6 example, cellular liquids and cell samples.

7

8 While such apparatus are numerous and consist of
9 basic components with differences in design and
10 arrangements for safely storing and transporting
11 cell samples, no previously proposed arrangements
12 efficiently assist in safely storing, transporting
13 and preserving fluids such as cellular liquids and
14 cell samples.

15

16 According to the present invention there is provided
17 fluid storage apparatus comprising a first container
18 having a first chamber capable of being filled with
19 fluid, a second container having a second chamber
20 adapted to receive the fluid from said first
21 chamber, the second container having piston means
22 slidably receivable within the first chamber of the

1 first container wherein, on insertion of said piston
2 means within said first chamber of the first
3 container, fluid is displaced from the first chamber
4 to the second chamber.

5

6 Embodiments of the present invention will now be
7 described, by way of example only, with reference to
8 the accompanying drawings in which:-

9

10 Fig. 1 is a side view of fluid storage
11 apparatus in an initial position; and
12

13 Fig. 2 is a side view of the fluid apparatus of
14 Fig. 1 in a storage position.
15

16 Referring to the drawings, fluid storage apparatus
17 10 for storing and transporting fluids such as, for
18 example, cellular liquids and cell samples comprises
19 a first container 12 having a first chamber 14
20 capable of being filled with a volume of fluid.
21

22 The chamber 14, in section, is in the form of a
23 rectangle having a semi-circle located at one end of
24 the rectangle.
25

26 The apparatus 10 further comprises a second
27 container 16 having and a second chamber 20 and a
28 piston 18. The second chamber 20, in section, is
29 rectangular and is adapted to receive the fluid
30 displaced from the first chamber 14.
31
32

3

1 The piston 18 includes a stepped, central orifice 22,
2 defining a conduit which allows the fluid to move
3 from the first chamber 14 to the second chamber 20.
4

5 The piston 18 is slidably receivable within the
6 first chamber 14 of the first container 12.
7

8 The volume of the first chamber 14 is substantially
9 equal to the volume of the second chamber 20 and the
10 stepped, central orifice 22.
11

12 In use, the first chamber 14 of the first container
13 12 is filled with a fluid. The piston 18 is then
14 inserted into the first chamber 14 and the first and
15 second containers are then urged together by means
16 of longitudinal forces A and B applied to respective
17 exterior ends 24, 26 of the first and second
18 containers 12, 16, forcing the piston 18 into the
19 first chamber 14.
20

21 The fluid in turn is forced by the piston 18 through
22 the stepped, central orifice 22 and exits into the
23 second chamber 20.
24

25 The opposed longitudinal forces are applied to the
26 respective ends 24, 26 until all the fluid has been
27 transferred from the first chamber 14 through the
28 central orifice 22 into the second chamber 20.
29

30 The apparatus 10 is tightly sealed preventing the
31 fluid from escaping from the apparatus 10 in

4

1 transport, and preventing the surrounding air to
2 interfere with the fluid thus preserving the fluid.
3
4 Modifications and improvements may be made to the
5 above without departing from the scope of the
6 present invention.

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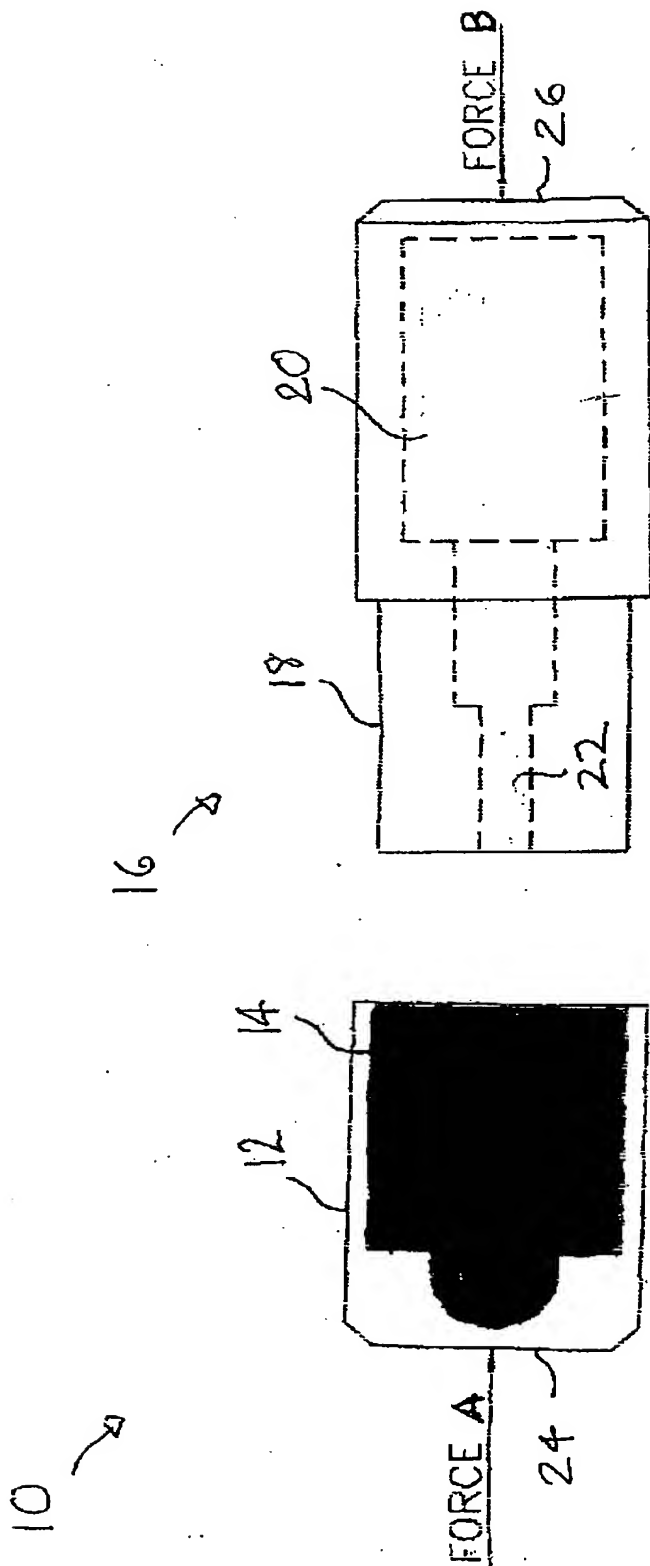


Fig. 1

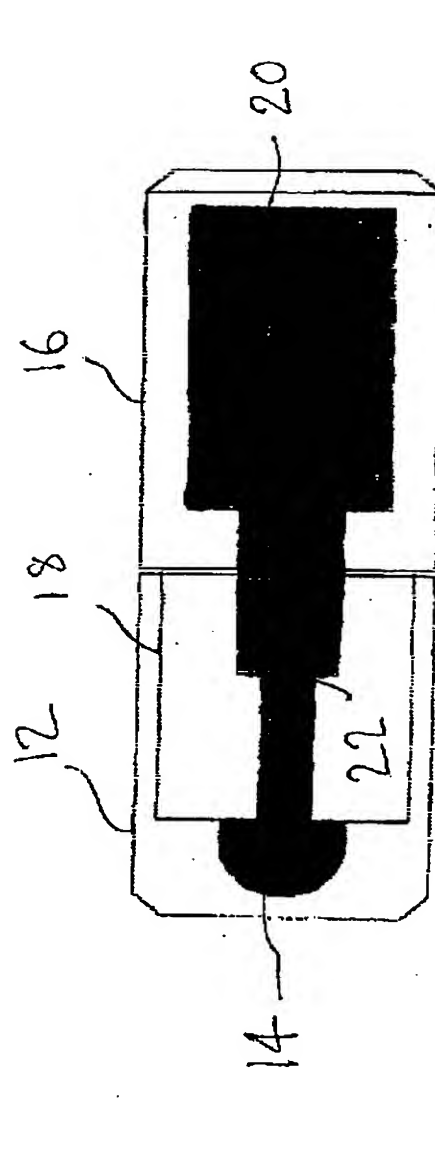


Fig. 2

